



# PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

## Surface Water Rescue Technician I & II Skill Stations

NFPA 1006 (2013 Edition) – Chapter 11

### Surface Water Rescue Technician Level I

Station A	Site Survey and PPE (Open Water)	Random Station
Station C	Water-bound Victim Search and Rescue (Open water)	Random Station
Station D	Shore-based Rescue	Mandatory Station
Station E	Watercraft Exercise	Mandatory Station
Station F	Water to Watercraft Victim Rescue	Random Station
Station H	Highline System Operations (Shore or appropriate land based location)	Random Station
Station I	Helicopter Landing Zone (shore/land based)	Random Station

### Surface Water Rescue Technician Levels I & II

Station B	In-Water Swim and PPE (Pool)	Mandatory Station
Station G	Water-based Rescue (Pool)	Mandatory Station

### Surface Water Rescue Technician Level II

Station J	Supervise and Lead a Rescue Team	Mandatory Station
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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION A – Site Survey and Search</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.1, 11.1.2, 11.1.3, 11.1.15</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given an assortment of references, topographic maps of a search area, and PPE, the candidate will perform a scene survey, establish search parameters for a water rescue incident, and identify, don and doff appropriate PPE based on the site survey, and follow AHJ protocols for equipment positioning.

**Performance Outcome:** Pass / Fail is determined by **8 of 8** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Evaluates site condition, identifies hazards and effectively interpret reference materials		
<b>2</b>	Identifies, don & doff rescue specific PPE ___ Personal Flotation Devices (PFD)    ___ Two (2) Locking Carabiners ___ Water rescue helmet    ___ One (1) Whistle ___ In water insulation garment    ___ One (1) Knife ___ One (1) light		
<b>3</b>	Able to read topographic maps		
<b>4</b>	Identifies a search strategy		
<b>5</b>	Identifies conditions used to define the search area		
<b>6</b>	Implements passive and active search techniques		
<b>7</b>	Complete and documents risk – benefit analysis (Rescue Sequence Process)		
<b>8</b>	Completes the assignment in a professional manner		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

**Evaluator Comments:** \_\_\_\_\_

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION B – In-Water Swim and PPE</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Mandatory Station: JPRs 11.1.2, 11.1.3, 11.1.12, 11.1.13, 11.2.1, 11.2.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b>  _____ <b>Initial</b> _____ <b>Retest</b>

**Evaluator Note:** Tasks must be performed in a controlled environment (e.g., indoor / outdoor swimming pool).

**Directions:** Given a water rescue within a setting representative of typical bodies of water found in the AHJ, select and utilize appropriate PPE; swim a designated water course while continually assessing for hazards and while utilizing a communication system. Do you have any questions?

**Scenario:** You are dispatched to a water rescue at a local waterway. As a responder, identify the hazards, utilize appropriate PPE for the specific water rescue, and demonstrate proficient water survival skills while utilizing a communication system.

**Performance Outcome:** Pass / Fail is determined by **10 of 10** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Demonstrates the ability to select appropriate personal flotation devices		
<b>2</b>	PPE check is completed prior to entering the water		
<b>3</b>	Dons and doffs personal flotation devices		
<b>4</b>	Selects, dons and doffs appropriate PPE ___ Helmet ___ In water insulating garments ___ Two (2) Carabiners ___ Whistle ___ Light ___ Knife		
<b>5</b>	Utilizes and demonstrates proficiency in communicating distress signals ___ Hand & whistle signals for Help ___ OK ___ Stop ___ Wrap it up ___ Tension ___ Slack ___ Release ___ Victim recovered		
<b>6</b>	Demonstrates proficiency in emergency escape procedures (Type V bailout)		
<b>7</b>	Applies water survival skills and explains the use of and demonstrates the: ___ HELP position ___ HUDDLE position		
<b>8</b>	Demonstrates the ability to swim and float in different water conditions with and without flotation aids or swimming aids, as required: a. demonstrates correct process for entering water environment b. swims 50-yards from a designated Point A to Point B and back c. Treads water or floats in water for five (5) minutes		
<b>9</b>	Evaluates water conditions to identify entry points and hazards		
<b>10</b>	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION C – Water-bound Victim Search &amp; Rescue</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.4, 11.1.15, 11.1.3, 11.1.5, 11.1.2, 11.1.1, 11.1.14</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b>  _____ <b>Initial</b> _____ <b>Retest</b>

**Directions:** Utilizing AHJ policies and procedures, develop (i.e., document) an action plan for a shore-based rescue given a single water-bound victim. Obtain victim information from bystander interviews, consider environmental factors, and type of water rescue and medical equipment needed. Perform a single person crossing while continually assessing for hazards and utilizing a communication system. Extricate the victim from the water to the shore as a member of a team. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **13 of 13** tasks being correctly performed.

No.	Tasks	Yes	No
1	Conducts a scene size up / evaluates site conditions		
2	Determines hydrology and water dynamics		
3	Identifies hazards (risk-benefit analysis)		
4	Conducts witness interviews, last seen location can be determined		
5	Develops an action plan		
6	Identifies available resources (personnel and equipment)		
7	Identifies / Evaluates access and egress routes		
8	Dons appropriate PPE		
9	Identifies behavioral pattern(s) of victim		
10	Performs crossing		
11	Continually evaluates changing conditions and victim behavior		
12	Removes victim to a safe-haven		
13	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>			
			<b>PASS</b> <b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION D – Shore-based Rescue</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Mandatory Station: JPRs 11.1.6, 11.1.4, 11.1.7</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> _____ <b>Initial</b> _____ <b>Retest</b>

**Directions:** Utilizing AHJ policies and procedures and given a water rescue rope in a throw bag in addition to PPE, deploy a water rescue rope to a water-bound victim so that no entanglement in the throw line occurs and a positive buoyancy for the victim and the rescuers is maintained. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **7 of 7** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Conducts a scene size up and identifies: <ul style="list-style-type: none"> <li>a. hazards (upstream/downstream, current and tides)</li> <li>b. risks-benefits related to the specific rescue</li> <li>c. components for the action plan</li> <li>d. available resources (personnel and equipment)</li> </ul>		
<b>2</b>	Selects and dons appropriate PPE specific to the water environment		
<b>3</b>	Demonstrate appropriate shore-based victim removal techniques: <ul style="list-style-type: none"> <li>a. use of double floating line tether</li> <li>b. deployment of rope throw bag, deploys at a minimum a 50 ft. section (underhand, overhand side-arm)</li> <li>c. deployment of a coiled throw line</li> </ul>		
<b>4</b>	Demonstrates retrieval of a victim using a throw bag, places rope over correct shoulder and brings victim to shore, vector if necessary		
<b>5</b>	Predicts victim behavior and movement		
<b>6</b>	Applies water survival skills by demonstrating: <ul style="list-style-type: none"> <li>a. defensive swimming posture for traveling downstream (i.e. self-rescue)</li> <li>b. offensive swimming posture to approach strainers, obstructions, victims in moving water and/or entering an eddy</li> <li>c. the ferry-angle to cross moving bodies of water</li> <li>d. a single person crossing</li> </ul>		
<b>7</b>	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION E – Watercraft Exercises</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Mandatory Station: JPRs 11.1.8, 11.1.10, 11.1.15</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Evaluator Note:** Service should be able to support vehicle operations with/without trailers/conveyances. The launch should not proceed if the watercraft is not adequate or is incapable of operating in the existing condition. Hand/Distress signals are communicated if necessary.

**Directions:** Utilizing AHJ policies and procedures, deploy a watercraft, negotiate a designated water course in the watercraft so that the watercraft is launched and recovered without damage or injury, trailers, conveyances, and support vehicles are utilized within the scope of their designed specifications, and the rescue effort is not delayed. Do you have any questions?

**Performance Outcome:** Pass / Fail will be determined by **16 of 16** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Conducts a pre-deployment inspection of watercraft (basic boating inspection)		
<b>2</b>	Conducts a pre-launch inspection a. full PPE    b. boat plug    c. rescue equipment    d. hazards e. bowline    f. lighting		
<b>3</b>	Identifies components of the watercraft provided a. air valves    b. scupper    c. bow    d. steering mechanism		
<b>4</b>	Performs correct cast-off procedures		
<b>5</b>	Demonstrates maneuvering to enter an eddy without power		
<b>6</b>	Demonstrates a recovery maneuver for a power loss, procedure for re-starting the motor when exiting an eddy (spare kill switch, raise / lower motor)		
<b>7</b>	Movement is controlled		
<b>Operation of Watercraft Conveyance</b>			
<b>8</b>	Conducts a pre-deployment inspection of watercraft transport vehicle		
<b>9</b>	Performs correct load / docking procedures		
<b>10</b>	Maneuvers backwards and forwards through an obstacle course (English gates)		
<b>11</b>	Maneuvers through an obstacle course in a figure eight (serpentine)		
<b>12</b>	Demonstrates the broaching or flipping of a boat (whole process)		
<b>13</b>	Movement is controlled		
<b>14</b>	RIC was staged for deployment for watercraft crew		
<b>15</b>	Hazards were continually assessed (e.g., changes in water conditions, currents/tides)		
<b>16</b>	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION F - Water to Watercraft Victim Rescue</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.8, 11.1.11, 11.1.15</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given a watercraft, water rescue equipment, and PPE, and as a member of a team, use a rescue technique to extricate an incapacitated water-bound victim from the water to the watercraft so that the watercraft is not broached and control of the watercraft is maintained. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **5 of 5** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Identifies the need for a rescue technique(s) a. parbuckling    b. direct pull    c. stirrup		
<b>2</b>	Identifies correctly the equipment needed to perform the rescue technique(s)		
<b>3</b>	Predicts victim behavior and movement, and demonstrates an approach to the victim for potential rescue technique		
<b>4</b>	Demonstrates the rescue technique for the water-bound victim		
<b>5</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION G - Water-based Rescue</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Mandatory Station: JPRs 11.1.11, 11.2.2, 11.2.3</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given water rescue equipment (i.e., swim aid, victim floatation aids, reach/extension devices) and PPE, perform a swimming water-surface rescue so that victim contact is maintained, the rescuer maintains control of the victim, the rescuer and victim reach safety at a predetermined area, and the medical conditions and treatment options are considered. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **7 of 7** tasks being correctly performed.

No.	Tasks	Yes	No
1	Able to swim and float in different water conditions with and without flotation or swimming aids a. applies water survival skills b. predicts movement and manages combative victim c. effectively releases oneself from the grasp of a panicked victim using block, releases and escapes		
2	Evaluates water conditions and select appropriate entry/exit points and methods		
3	Selects, dons and doffs appropriate PPE		
4	Selects and uses flotation and/or swim aid appropriately		
5	Utilize communications systems		
6	Selects equipment and techniques for treatment of aquatic medical emergencies <b>Conscious Victim</b> * ABC's * Stabilizes victim's c-spine manually while in water * Identifies and treats life threatening injuries * Positions and properly secures victim to a spinal immobilization device * Removes victim from water <b>Unconscious Victim</b> * ABC's * Stabilizes victim's c-spine manually while in water * Demonstrates turning of victim using the roll method * Identifies and treats life threatening injuries * Positions and properly secures victim to a spinal immobilization device * Removes victim from water		
7	Completes all tasks without compromising personal safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION H - Highline System Operations</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.11, 11.1.14</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given an established highline system, a load to be moved, and as a member of a team, direct a team in operating the highline system so that the movement is controlled, the load is held in place when needed, operating methods do not stress the system to a point of failure, personnel assignments are made, tasks are communicated, operational commands are communicated to personnel, and potential problems are identified, communicated and managed. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **5 of 5** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Conducts a scene size-up and: a. evaluates the incident for interference and obstacle negotiation b. identifies an action plan c. identifies the available resources (personnel and equipment) d. determines the need for high line water rescue e. Assigns personnel with rescue tasks		
<b>2</b>	Completes a system safety check and evaluates for any compromised integrity		
<b>3</b>	Manages the movement of the load a. victim is secure into stokes basket b. basket is secured to high-line system c. victim is transported using high-line system and appropriate operational commands		
<b>4</b>	Utilizes effectively the communications systems		
<b>5</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION I - Helicopter Landing Zone</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.9, 11.1.14, 11.1.11</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Using a pre-determined site, applicable resources, PPE, and as a member of a team, package a patient for transport and establish a landing zone for a medical EVAC helicopter in accordance with local or jurisdictional protocol. Communicate with the aircraft crew in an effective and efficient manner and complete the tasks without compromising the air crew or ground personnel safety. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **8 of 10** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Conducts a scene size up a. identifies hazards b. identifies available resources (personnel and equipment) c. identifies need for air operations d. reviews AHJ crash survival principles		
<b>2</b>	Selects and dons appropriate PPE		
<b>3</b>	Packages the patient appropriately for transport (rigs aircraft for anticipated rescue procedures – if applicable)		
<b>Establish and Control the Landing Zone</b>			
<b>4</b>	Selects an appropriate site / area for a landing zone		
<b>5</b>	Identifies visible hazards		
<b>6</b>	Identifies fire protection needs		
<b>7</b>	Corners of and appropriately marks the landing zone site / area		
<b>8</b>	Communicates conditions and hazards effectively with aircraft crew		
<b>9</b>	Establishes and maintains scene safety		
<b>10</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY SURFACE WATER RESCUE TECHNICIAN

<b>STATION J - Supervise and Lead a Rescue Team</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 11 Random Station: JPRs 11.1.9, 11.1.14, 11.1.11</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given incident checklists, maps, and topographic surveys and charts, coordinate, lead and supervise a rescue team during a rescue operation. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **8 of 9** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Establishes an Incident Management System		
<b>2</b>	Identifies and assesses hazards		
<b>3</b>	Verifies the personnel's abilities / qualifications of the rescuers		
<b>4</b>	Conducts a pre-entry briefing		
<b>5</b>	Establishes and maintains scene safety		
<b>6</b>	Supervises personnel / manages team		
<b>7</b>	Ensures the safety and health of the team / personnel		
<b>8</b>	Performs a debriefing		
<b>9</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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